# CC598 Support Package

## Software Release Bulletin

Level 750 **Control Data Corporation** June, 1990

## Introduction

This package contains one floppy disk (part number 10322177 Rev D) and this Software Release Bulletin. The floppy disk is a MS-DOS bootable disk containing Level 750 Console Software and the programs used to assemble and maintain the CC598A and CC598B System Consoles and the CC598C LCN Network Maintenance Station.

### Copyright/Proprietary Software

This disk contains software copyrighted by Zenith Data Systems and Microsoft Corporation licensed to Control Data as well as Control Data proprietary software. Duplication in whole or part is prohibited. Additional copies may be ordered from SMD.

### CSW Support

Any problem with the console software should be reported on a PSR under the ident CSW. Specify the nature of the problem and include the level number on each PSR.

Any problem with the media or the package contents should be reported to Software Manufacturing and Distribution (SMD). A report form "The Software Manufacturing and Distribution Critique Letter" accompanies each disk. To order a replacement disk, please complete this form. Be sure to include a description of the problem and your mailing address. Send the form with the defective disk to SMD so that a replacement disk can be sent to you.

A replacement disk may also be ordered by phone, by calling 612-482-3409.

Any problem with the contents of this SRB should be reported to Central Software Support, 1-800-345-6628 US/Canada and 1-612-482-3434 other Countries.

### Manual vs SRB

Where there is a difference between the information contained in this document and the 19003 System Console Operations and Maintenance Manual, the information contained here takes precedence.

## New Features

### Cyber 960 'S' Support.

The console sofltware now supports the Cyber 960 'S' model system (Cyber 960 with an AT478D IOU).

### Keyboard Hang.

The apparent 'keyboard hang' caused by simultaneously striking the Ctrl-F1 and F2 keys has been corrected.

### Disappearing Cursor.

With previous releases and newer Paradise Video boards, it was possible for the cursor to disappear after exiting from the Console Utilities menu.

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## Console Software Installation

To install the Console Software on the hard disk, type **INSTALL** and press the **ENTER** key.

When the CDC logo appears on the screen, the installation is complete.

NOTE: If an IOU is not attached to the console, an error message is displayed. This is normal.

### Conventions

The term 'console' refers to any model of the CC598.

When the word 'press' is used, it means to press the named key(s).

When the word 'press' precedes a string of key names that are separated by hypens, it means to press the keys simultaneously.

When the word 'type' is used, it means to type the word following.

## How to Boot the Support Disk

With power applied to the console, insert the Support disk into the floppy drive and latch the door. Press the **Ctrl-Alt-Ins** keys. The console will display:

```
MFM-200 Monitor, Version X.X
Memory Size: 640K Bytes
Enter ? for help
->
```

Type **BF** and press the **ENTER** key. The following screen will appear.

```
                CC598 Support Package

Refer to the documentation accompanying this disk for usage
information.

Quick Reference:
  Console Software Installation - Type INSTALL
  Hard Disk Initialization - Type HDI
  Wren III Low Level Format - Type LOW
  Hostess Diagnostics - Type HOST
  Advanced Emulation Package - Type AEP

All entries must be followed by pressing the ENTER key
```

Enter the command for the procedure that you wish to execute. After entering the procedure command, a set of instructions will be displayed on the screen. Follow these instructions.

NOTE: If your console is a B or C model and you have replaced the hard disk, disregard the 'controller is bad' error message when first applying power to the console before executing the HDI procedure.

## Procedure
## Hard Disk Initialization

**STOP WARNING**

Prior to executing this procedure, examine the System Configuration information. Refer to the section on System Hardware Setup.
This procedure will destroy all data on the hard disk!

To execute the Hard Disk Initialization, type **HDI** and press the **ENTER** key. The following informational display will be presented.

```
Hard Disk Initialization Procedures
for the CC598-A/B/C Consoles

The CC598 console requires a two part process in order to prepare
the disk.

A re-boot is required between the parts. To re-boot press the
Ctrl-Alt-Ins keys.
```

When you are ready, press any key for the detailed instructions. The screen shown below will appear.

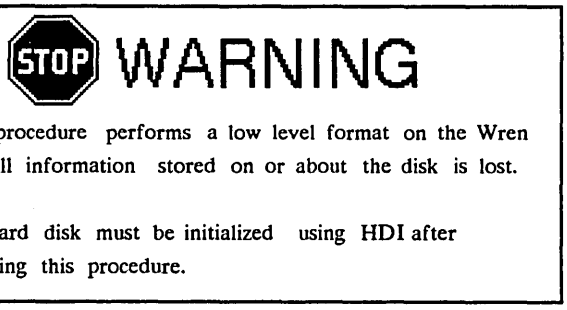
```
Hard Disk Initialization Procedures
for the CC598-A/B/C Consoles

                    Part One:
For a CC598A type "A1" Then folllow the instructions in
                       the SRB accompanying this disk.

For a CC598B/C Console type "B1"

                    Part Two:
    For a CC598A Console   type "A2"
    For a CC598B Console   type "B2"
    For a CC598C Console   type "C2"
```

The instructions begin on page 8.

Select the procedure for your console model and type the command for the part that you are going to execute. All parts must be executed and be executed in order. If your console is a B or C model, disregard the 'not a bootable partition' error message after executing Part 1.

## Procedure
# Wren III Low Level Format

There are no specific ground rules for when this procedure should be executed. Think of the Low Level format the same way that you think of formatting a CYBER disk and use it accordingly. Generally speaking, try this procedure on the disk prior to replacing it. It may fix the problem.




To execute the Wren III Low Level Format procedure, type **LOW** and press the **ENTER** key. The following informational screen will be presented.

```
Wren III Low Level Format Routine
This procedure performs a low level format on the Wren
III. All information stored on or about the disk is lost.
```

Note: The light on the Wren III will not be on during this operation. DO NOT interrupt the formatting operation or the console will be unusable.

Press any key to start the format. The following format display will appear on the screen.

```
Version 2.13 - 9 November 1987
Controller is Generic
Base I/O Port Address is: 330
DMA Channel is: 1
Common Command Set Enabled

1 port: 340h
2 rt10-at
3 dma:hsdma
RT10-AT Adapter Assumed
4 dmachan: 5
5 tfr
tdr CDB is 00 00 00 00 00 00
Status: 00H
6 fd
fd CDB is 04 00 00 00 00 00
```

The following display will appear when the formatting is complete.

```
Common Command Set Enabled
1 port: 340h
2 rt10-at
3 dma:hsdma
RT10-AT Adapter Assumed
4 dmachan: 5
5 tfr
tdr CDB is 00 00 00 00 00 00
Status: 00H
6 fd
fd CDB is 04 00 00 00 00 00
Data Written:
Status: 00H
7 quit

A>
```

## Procedure
## Hostess Diagnostics

To execute the Hostess Network Adapter diagnostics, type **HOST** and press the **ENTER** key.

Enter the following information as prompted by the diagnostic.

| | |
|---|---|
| Hostess board base address: | Enter 140 |
| System Clock Speed: | Select 2 |
| Number of Ports: | Enter 8 |

As the diagnostic runs, you will be directed to install the test plug that is included in the Multiport Adapter package. Install the test plug on the port as you are directed.

Note: For additional information and explanations of any error message displayed, refer to the HOSTESS Multiport Network Adapter User's Guide which was shipped with your console.

### Utility Disk Directory Structure

The disk is divided into five directories. Each directory contains the software necessary to perform a unique function. The five directories are:

BIN: The BIN directory contains MS-DOS programs that are common to all of the procedures.

HDI: The HDI directory contains the procedures used to initialize the hard disks in the consoles.

LOW: The LOW directory contains the software and procedures necessary to perform a low level format on the CC598A's Wren III SCSI hard disk.

HOST: The HOST directory contains a copy of the HOSTESS diagnostics for the HOSTESS Multiport Network Adapter used in the CC598A and CC598B consoles.

CSW: The CSW directory contains the CC598A and CC598B Console Software.

## Procedure
## System Hardware Setup

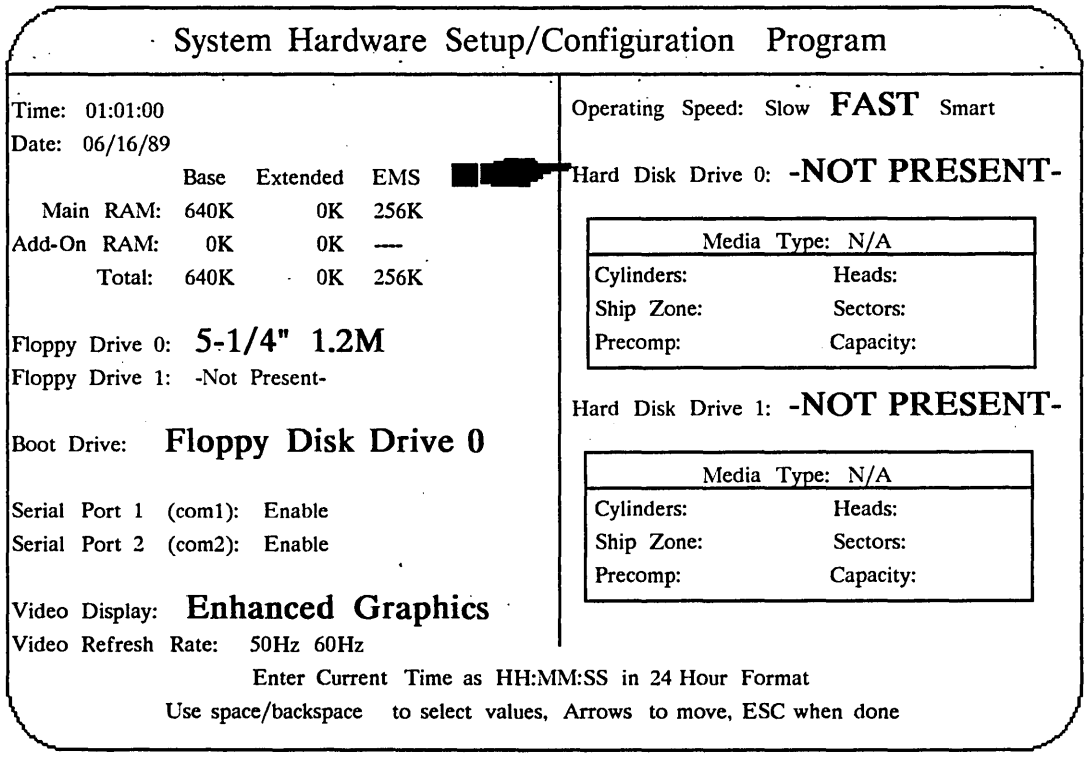
The following steps describe how to reboot and reconfigure the console. With power applied to the console, insert the Support disk into the floppy drive and latch the door.

Press the **Ctrl-Alt-Ins** keys. The console will display:

```
MFM-200 Monitor, Version X.X
Memory Size: 640K Bytes
Enter ? for help
->
```

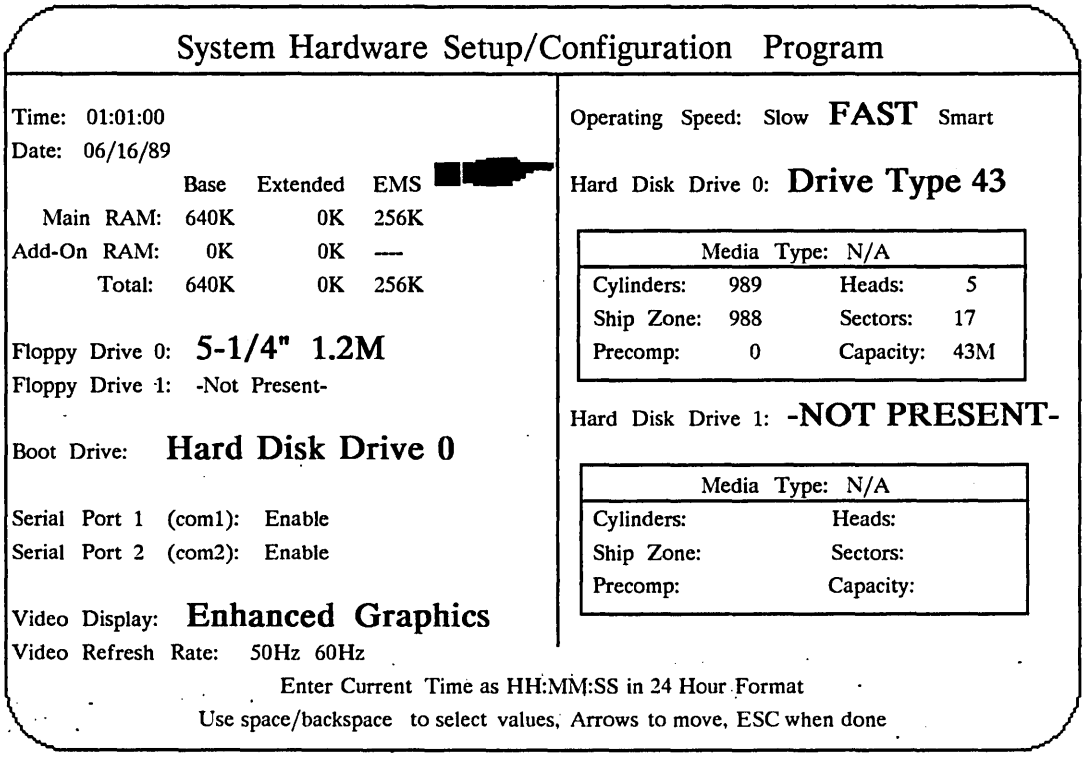
Type **SETUP** and press the **ENTER** key.

Depending on your console type, one of the following displays will appear. Use the arrow keys to move the cursor, the space/backspace to select the values and the ESC key to exit when you are done. After pressing the ESC key, follow the directions shown at the bottom of the display.




CC598A Configuration

NOTE: The -Not Present- Indication shown here for Hard Disk Drive 0 is normal, since the CC598A console uses a SCSI drive.




CC598B and CC598C Configuration.

NOTE: The displays shown are generic. The location of the items may be different on your console. This is due to the different revision levels of the BIOS ROM installed in the consoles. However, make certain that the highlighted items in these displays match what is selected on your console.

# CC598A HDI Instructions Part 1

## Introduction

This procedure partitions the hard disk into three CIP partitions. The MS-DOS utility, PART, is used to accomplish the partitioning. This utility is graphic/windows oriented. Therefore, most of the displays are windowed inside of each other.

## Execution

After typing 'A1' from the HDI display, the following screen will appear.

```
Part - Hard Disk Partitioning Utility
Copyright (c) 1989, Zenith Data Systems Corporation

The part utility helps you to change the arrangement of the MS-DOS
Partitions on your hard disk drive. PART displays a table showing the
types of each partition, the start cylinder, the end cylinder and the amount
of disk space allocated to each partition.

CAUTION: Using PART can destroy all files on your hard disk drive. Do
not use PART until you have transferred copies of your hard disk files to
floppy disks.
Press ENTER or ESC to continue...
```

## Press the Enter Key

The display will be replaced with the following display. This display is the main display and is active during the remainder of this procedure. Additions will be made to this display as we proceed.

```
PART - Hard Disk Partitioning Utility
Copyright (c) 1989, Zenith Data Systems Corporation
Version 3.30.06

Current hard disk unit selected (logical/physical)  = 1 (80h)
Current Boot partition = NONE, Maximin Cyl/Heads/Sectors  = 982/ 7/26

          Select next hard disk partition
          Display current hard disk partition
          Add a MS-DOS hard disk partition
          Delete a MS-DOS hard disk partition
          Change the default MS-DOS boot partition
          Exit PART and return to MS-DOS

Move to selection with arrow keys, press ENTER to Select or ESC to Quit
```

Main Display

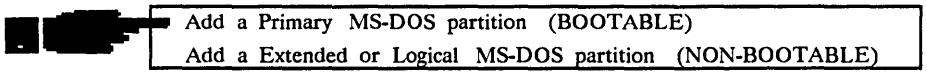
## HDI Part 1 Instructions continued...

Press the Down Arrow key

You will notice that the 'Select next hard disk unit' option is highlighted. Press the down arrow key until the 'Add a MS-DOS hard disk partition' option is highlighted.

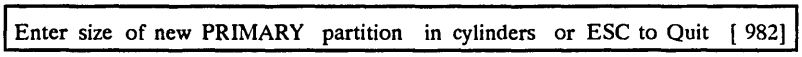
Press the Enter key

Pressing the ENTER key selects the 'Add a MS-DOS hard disk partition' option and causes the following window to open.



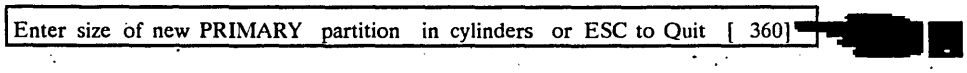

Press the Enter key

The 'Add a Primary MS-DOS partition (BOOTABLE)' option is highlighted. Pressing the ENTER key selects this option and causes the following window to open.




Enter 360

This is the number of cylinders for the first partition. The window will change to:




Press the Enter key

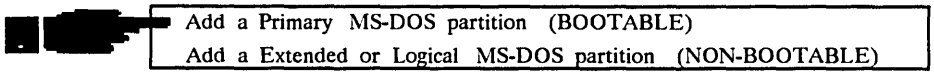
Pressing the ENTER key causes the first partition to be 360 cylinders. The screen will return to the main display as shown on page 8.

Press the Down Arrow key

You will notice that the 'Select next hard disk unit' option is highlighted. Press the DOWN ARROW key until the 'Add a MS-DOS hard disk partition' option is highlighted.

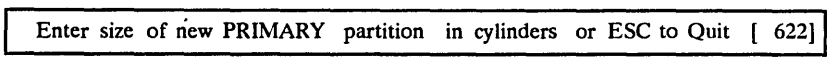
Press the Enter key

Pressing the ENTER key selects the 'Add a MS-DOS hard disk partition' option and causes the following window to open:



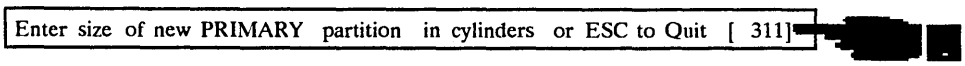

Press the Enter key

The 'Add a Primary MS-DOS partition (BOOTABLE)' option is highlighted. Pressing the ENTER key selects this option and causes the following window to open:




Enter 311

This the numbers of cylinders for the second partition. The window will change to:



## HDI Part 1 Instructions continued...

Press the Enter key

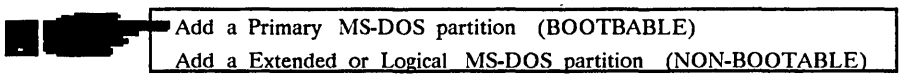
Pressing the ENTER key causes the second partition to be 311 cylinders. The screen will return to the main display as shown on page 9.

Press the Down Arrow key

You will notice that the 'Select next hard disk unit' option is highlighted. Press the DOWN ARROW key until the 'Add a MS-DOS hard disk partition' option is highlighted.

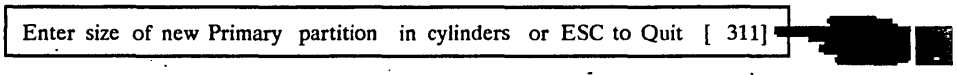
Press the Enter key

Pressing the ENTER key selects the 'Add a MS-DOS hard disk partition' option and causes the following window to open:




Press the Enter key

Pressing the ENTER key selects this option and causes the following window to open:




Press the Enter key

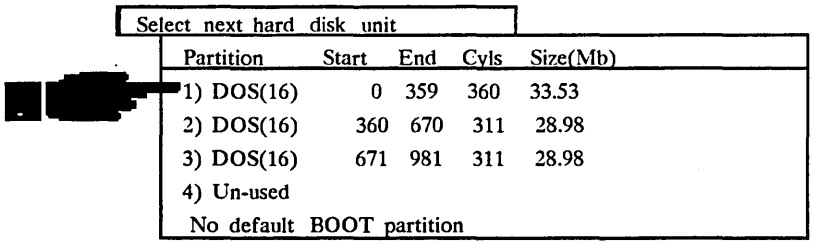
Pressing the ENTER key causes the third partition to be 311 cylinders. The screen will return to the main display as shown on page 8.

Press the Down Arrow key

You will notice that the 'Select next hard disk unit' option is highlighted. Press the DOWN ARROW key until the 'Change the Default MS-DOS Boot partition' option is highlighted.

Press the Enter key

Pressing the ENTER key selects the 'Change default MS-DOS boot partition' option and causes the following window to open:



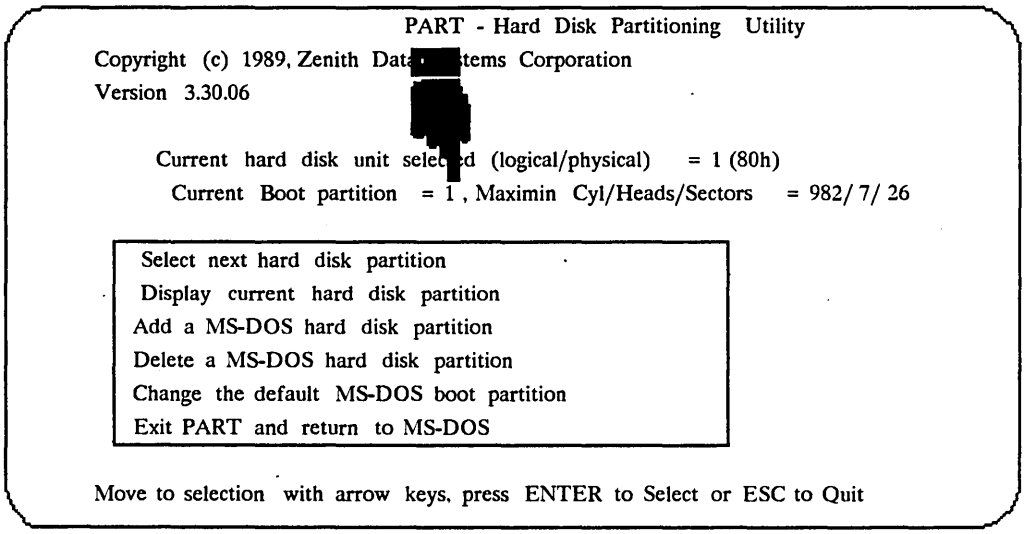

Press the Enter key

You will notice that the first line of the window, 1)DOS(16).., is highlighted. By pressing the ENTER key, this partition is selected as the boot partition.

## HDI Part 1 Instructions continued...

Examine the display

Notice that the 'Current Boot Partition = None' has changed to 'Current Boot Partition = 1'




Verification

The following sequence is used to verify that the partitioning was successful.

Press the Down Arrow key

Press the DOWN ARROW key until the 'Display current hard disk partition' option is highlighted.

Press the Enter key

Pressing the ENTER key selects the options and causes the following window to open:

Select next hard disk unit

| Partition | Start | End | Cyls | Size(Mb) |
|---|---|---|---|---|
| 1) DOS(16) | 0 | 359 | 360 | 33.53 |
| 2) DOS(16) | 360 | 670 | 311 | 28.98 |
| 3) DOS(16) | 671 | 981 | 311 | 28.98 |
| 4) Un-used | | | | |

Press the Enter key

Before pressing the ENTER key. Make sure that the display on the screen matches the screen shown above. Whether correct or incorrect, you must press the ENTER key to proceed.

**HDI Part 1 Instructions continued...**

## If Correct...

| | |
|---|---|
| Press the Down Arrow key | Press the DOWN ARROW key until the 'Make change and REBOOT the system' option is highlighted. |
| Press the Enter key | Pressing the ENTER key selects the option and causes the following window to open: |

```
Are you sure that you want to (Y/N) :
```

| | |
|---|---|
| Press the Y key | After pressing the Y key, the system will reboot. Proceed to HDI Part 2 on page 3. |

## If All is NOT Correct...

| | |
|---|---|
| Press the Down Arrow key | Press the DOWN ARROW key until the 'Abort all changes and EXIT to MS-DOS' option is highlighted. |
| Press the Enter key | Pressing the ENTER key selects the option and causes the window shown on the next page to open. |

```
Are you sure that you want to Quit (Y/N) :
```

| | |
|---|---|
| Press the Y key | After pressing the Y key, the system will return to the A> prompt. Since you aborted the PART utility, no changes have been made to the hard disk. To continue, start the HDI procedure over again by pressing the Ctrl-Alt-Del key. |

Note : The PART utililty records information on the hard disk. If you execute this utility and find out later that something is incorrect, you must run the procedure LOW before attempting to re-execute this procedure.